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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,190	09/17/2003	Denis Ghesquiere	291621US0	9335
22850 7590 02/21/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			GILLESPIE, BENJAMIN	
ALEXANDRIA	NDRIA, VA 22314		ART UNIT	PAPER NUMBER
		1796		
			NOTIFICATION DATE	DELIVERY MODE
			02/21/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)	
Office Action Summary		Application No.		
		10/667,190	GHESQUIERE, DENIS	
	Office Action Summary	Examiner	Art Unit	
	The MAILING DATE of this communication app	BENJAMIN J. GILLESPIE	1796	
Period fo		ears on the cover sheet with the c	orrespondence address	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a solution of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timularly and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)□	Responsive to communication(s) filed on <u>05 De</u> This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disnosit	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) <u>1-13</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrav Claim(s) is/are allowed. Claim(s) <u>1-13</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or			
Applicat	ion Papers			
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex-	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority (under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage	
2) Notice 3) Information	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) ter No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	ate	

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thoma et al ('172) and GB 917,450. Thoma et al teach a method for producing a polyurethane elastomer comprising the reaction product of an (A) isocyanate-terminated prepolymer and (B) polyester polyol (Col 1 lines 25-33; col 2 lines 3-15). '
- 2. In particular, patentees explain that (A) is the reaction product of diisocyanate and polyester polyol, which is different from (B), specifically those described in the British Patent 917,450 (Col 2 lines 41-44, 55). GB 917,450 teaches that aliphatic polyester polyol is produced by reacting dicarboxylic acids, such as adipic, sebacic, or glutaric acid with diols such as butanediol and ethylene glycol (GB 917,450, page 2, lines 58-64, 69, 71). Component (B) is a polyester polyol produced by the reaction product of diol such as ethylene glycol, butanediol, or diglycol, and dicarboxylic acids, wherein said dicarboxylic acids contain both (i) aliphatic and (ii) aromatic compounds in a (i):(ii) molar ratio consisting of 1:1 (Col 3 lines 59-62, 68-70, 74-75; col 3 lines 1-4).
- 3. Important to note is that although patentees teach the aromatic dicarboxylic acid may consist of terephthalic or isophthalic acid, there is no disclosure of orthophthalic acid (Col 3 lines 59-62). Nevertheless it would have been obvious to include orthophthalic acid based on the motivation patentees teach other phthalic acids as suitable aromatic dicarboxylic acids, and

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compounds having the same radicals at different positions on the nucleus are position isomers. Their properties are often so nearly alike as to present difficulties in identification or separation.

Ex parte Mowry (POBA 1950) 91 USPQ 219. Furthermore, although patentees do no list orthophthalic acid, it is not definitively precluded from a possible aromatic compound as the listed species are only "examples."

- 4. Similarly, regarding the aliphatic dicarboxylic acid, Thoma et al fail to specifically teach sebacic acid, instead only teaching aliphatic dicarboxylic acids such as adipic acid (Col 4 lines 4-5). Nevertheless it would have been obvious to arrive at the claimed composition based on the disclosure of GB 917,450, as previously discussed. GB 917,450 teaches polyesters based on phthalic acid and aliphatic dicarboxylic acids, specifically adipic acid and sebacic acid (Page 2 lines 58-64, 67). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the aliphatic dicarboxylic acid of Thoma et al for the sebacic acid, as GB 917,450 teach it useful in polyesters based on aliphatic and aromatic compounds, and specifically it is a suitable equivalent for adipic acid, and the mere substitution of an equivalent is not an act of invention; where equivalency is known to the prior art, the substitution of one equivalent for another is not patentable, i.e. it would have been obvious. *In re Ruff* 118 USPO 343 (CCPA 1958).
- 5. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Thoma et al ('172) and GB 917,45 in view of Lorenz et al ('471). Aforementioned, Thoma et al teach a polyurethane elastomer comprising the reaction product of an aliphatic polyester based NCO terminated polyurethane prepolymer, and aromatic polyester polyol, wherein the resulting

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polyurethane is useful in load bearing applications (Col 4 lines 65-67). However, Thoma et al fail to disclose shoe soles comprising said polyurethane elastomer.

- 6. Lorenz et al also teach polyurethane elastomers comprising the reaction product of NCO terminated polyester based polyurethane prepolymer, and polyester polyol (Col 1 lines 5-11, 45-56; col 3 lines 54-67; col 4 lines 1-14). In particular the polyesters are based on the reaction products of acids such as sebacic and adipic acid, and low molecular weight diols consist of butanediol, ethylene glycol as well as diethylene glycol. Finally, patentee explains that based on the mechanical behavior of the elastomer as well as chemical resistance, the resulting elastomer is useful in shoe sole construction (Col 10 lines 10-15).
- 7. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the elastomer of Thoma et al in shoe soles based on the motivation that Thoma et al and Lorenz et al having similar compositions, and the prima facie case of obviousness that rises from the expectation that compounds similar in structure will have similar properties. *In re Gyurik*, 596 F. 2d 1012, 201 USPQ 552 (CCPA 1979).

Response to Arguments

8. Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN J. GILLESPIE whose telephone number is (571)272-2472. The examiner can normally be reached on 8am-5:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be

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reached on 571-272-1119. The fax phone number for the organization where this application or

proceeding is assigned is 571-273-8300.

10. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

B. Gillespie

/Rabon Sergent/ Primary Examiner, Art Unit 1796